

East JmH

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|-----------------|------------------|---------|------------------|
| S1 | 5277 | (455/562.1,112,137,132,73,561,108,102,103,226.1,226.2,226.3,189). CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/11/14 09:27 |
| S2 | 1 | ("20050245284").PN. | US-PGPUB; USPAT | OR | OFF | 2005/11/14 09:35 |
| S3 | 8689 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:17 |
| S4 | 139 | S1 and S3 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:29 |
| S5 | 4 | (antenna same weight same eigenvalue) and S4 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:07 |
| S6 | 1 | (antenna same weight same directivity) and S4 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:33 |
| S7 | 8 | ((antenna with radio) same (weight near control\$5)) same (array with antenna) same (direction or directivity) | US-PGPUB; USPAT | OR | ON | 2005/11/14 10:11 |
| S8 | 4 | S1 and S7 | US-PGPUB; USPAT | OR | ON | 2005/11/14 10:10 |
| S9 | 3 | S8 not S5 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:44 |
| S10 | 31 | ((antenna near2 (element or unit)) same ((direction or directivity) with (weight near2 control\$5))) and (array adj2 antenna) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:23 |
| S11 | 1 | ((weight near2 control\$4) with (eigenvalue with matrix)) same (characteristics or values) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:49 |
| S12 | 1 | ((weight near2 control\$4) with (eigenvalue same matrix)) same (characteristics or values) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:49 |
| S13 | 5353 | ((weight near2 control\$4) ssame (eigenvalue same matrix)) same (characteristics or values) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:49 |
| S14 | 3 | ((weight near2 control\$4) same (eigenvalue same matrix)) same (characteristics or values) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:52 |
| S15 | 1 | (matrix same characteristics) same channel | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:54 |
| S16 | 4 | (matrix same characteristics) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:54 |
| S17 | 44354 | (matrix same characteristic) | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:54 |
| S18 | 2033 | (matrix same characteristic) same channel | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |

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| S19 | 4 | (conjugate and product) same matrix | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |
| S20 | 1450 | (conjugate and product) same matrix | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |
| S21 | 399 | S17 and S20 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |
| S22 | 40 | S21 and S13 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |
| S23 | 4 | S22 and S1 | US-PGPUB; USPAT | OR | ON | 2005/11/14 09:55 |
| S24 | 1088 | (455/562.1).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/11/15 11:14 |
| S25 | 60 | (MIMO) and S24 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:15 |
| S26 | 17 | (antenna with (comprise or are or consist) with (adaptive adj array)) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:16 |
| S27 | 0 | S25 and S26 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:15 |
| S28 | 2 | S24 and S26 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:16 |
| S29 | 1 | (antenna adj5 (comprise or are or consist) adj5 (adaptive adj array)) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:17 |
| S30 | 0 | "plurality of antennas comprise an adaptive array" | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:17 |
| S31 | 0 | "antennas comprise an adaptive array" | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:18 |
| S32 | 3417 | antenna adj5 (array adj antenna) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:18 |
| S33 | 258 | S24 and S32 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:18 |
| S34 | 16 | S33 and S25 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:22 |
| S35 | 50 | ((plurality or multiple) adj2 antenna) adj5 (adaptive adj array) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:23 |
| S36 | 6 | S24 and S35 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:23 |
| S37 | 5282 | (455/562.1,112,137,132,73,561,108,102,103,226.1,226.2,226.3,189).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/11/15 11:24 |
| S38 | 3 | (S35 and S37) not S36 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:25 |
| S39 | 0 | (directivity with weight) and S38 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:25 |
| S40 | 60 | (directivity with weight) and S37 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:25 |

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| S41 | 23 | ((directivity with weight) same (adaptive adj array)) and S37 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:26 |
| S42 | 53 | ((inverse with calculat\$5) with matrix) same eigenvalue | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:38 |
| S43 | 1 | S42 and S37 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:26 |
| S44 | 69851 | ("455").CLAS. | US-PGPUB; USPAT | OR | OFF | 2005/11/15 11:27 |
| S45 | 5 | S42 and S44 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:29 |
| S46 | 13 | ((adjust\$3 or modif\$6) with directi\$5) same (inverse with matrix) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:29 |
| S47 | 4 | S44 and S46 | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:33 |
| S48 | 2 | ((inverse adj2 calculat\$4) with (matrix or matrices)) same (range with (eigenvalue or eigenvector)) | US-PGPUB; USPAT | OR | ON | 2005/11/15 11:34 |
| S49 | 1000 | (455/63.4,562.2,452.2,504-506). CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/11/15 14:00 |
| S50 | 30 | (beamforming) and S49 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:01 |
| S51 | 3 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) and S50 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:03 |
| S52 | 73 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) same (beamforming) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:05 |
| S53 | 20 | ((plurality or multiple) adj2 antenna) same S52 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:04 |
| S54 | 0 | ((((plurality or multiple) adj2 antenna) adj5 (adaptive adj array)) same S52 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:06 |
| S55 | 1 | (adaptive adj array) same S52 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:04 |
| S56 | 13629 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) adn (beamforming) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:05 |
| S57 | 175 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) and (beamforming) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:06 |
| S58 | 280 | ((plurality or multiple) adj2 antenna) same (beamforming) | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:06 |

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| S59 | 2 | ((plurality or multiple) adj2 antenna) adj5 (adaptive adj array)) same beamforming | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:06 |
| S60 | 9193 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:07 |
| S61 | 22 | (antenna same weight same eigenvalue) and S60 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:07 |
| S62 | 16 | (MIMO or "multiple-input-multiple-output" or (multiple near3 (input with output))) and S49 | US-PGPUB; USPAT | OR | ON | 2005/11/15 14:17 |
| S63 | 42 | ((antenna near2 (element or unit)) same ((direction or directivity) with (weight near2 control\$5))) and (array adj2 antenna) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:39 |
| S64 | 54 | ((inverse with calculat\$5) with matrix) same eigenvalue | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:42 |
| S65 | 0 | S62 and S64 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:39 |
| S66 | 0 | S64 and S49 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:39 |
| S67 | 9 | (antenna near2 (element or unit)) and S64 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:40 |
| S68 | 7 | ((inverse with calculat\$5) with matrix) same beamforming | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:45 |
| S69 | 6 | eigenvalue with average with range | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/11/15 14:45 |

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Interference Search

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|-----------------|------------------|---------|------------------|
| L1 | 0 | ((MIMO or (multiple adj input adj multiple adj output)) and (antenna) and (adaptive adj array) and (directivity or beamform\$3) and weight and control\$4 and eigenvalue and (matrix or matrices) and (Hermitian or (conjugate near transpose)) and inverse and calculat\$4).CLM. | US-PGPUB; USPAT | OR | ON | 2005/11/19 08:23 |
| L2 | 0 | ((MIMO or (multiple adj input adj multiple adj output)) and (antenna) and (adaptive adj array) and (directivity or beamform\$3) and weight and control\$4 and eigenvalue and (matrix or matrices) and (Hermitian or (conjugate near transpose)) and inverse and calculat\$4).CLM. | US-PGPUB | OR | ON | 2005/11/19 08:23 |
| L3 | 0 | ((antenna) and (adaptive adj array) and (directivity or beamform\$3) and weight and control\$4 and eigenvalue and (matrix or matrices) and (Hermitian or (conjugate near transpose)) and inverse and calculat\$4).CLM. | US-PGPUB | OR | ON | 2005/11/19 08:23 |